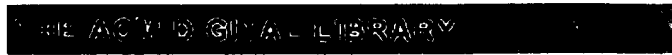



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 Terms used cluster center and weight vector and second data structure

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1 [Poster 3: content track: Two-scale image retrieval with significant meta-information](#)


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Jia Li

 November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**

Publisher: ACM Press

Full text available: pdf(1.33 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A two-scale image retrieval system is developed to provide efficient search in large-scale databases as well as flexibility for users to incorporate subjective preferences during retrieval. A new clustering method is developed for images each characterized by a varying number of weighted feature vectors. Furthermore, significant meta-information is mined within every cluster. A scanning mode of retrieval is created using cluster centers, which serve as a low scale version of a database in contrast ...

Keywords: fast search, image clustering, image retrieval, meta-information feedback

2 [A modular approach for exploring the semantic structure of technical document collections](#)



Andreas Becks, Stefan Sklorz, Matthias Jarke

 May 2000 **Proceedings of the working conference on Advanced visual interfaces**

Publisher: ACM Press

Full text available: pdf(712.88 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The identification and analysis of an enterprise's knowledge available in a documented form is a key element of knowledge management. Visual methods which allow easy access to a document collection's contents are an enabling technology. However, no single information retrieval technique is likely to adequately deal with such tasks independent of the specific situation. In this paper, we therefore present a visualization technique based on a modular approach that allows a variety of techniques ...

Keywords: document management and retrieval, knowledge management

3 [A LVQ-based neural network anti-spam email approach](#)





Zhan Chuan, Lu Xianliang, Hou Mengshu, Zhou Xu
January 2005 **ACM SIGOPS Operating Systems Review**, Volume 39 Issue 1

Publisher: ACM Press

Full text available: pdf(390.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Along with wide application of e-mail nowadays, many spam e-mails flood into people's email inboxes and bring catastrophe to their study and work. This paper presents a novel anti-spam e-mail filter based-LVQ network in terms of spam e-mails which are mainly made up of several kinds commercial or political spam emails at present. Our experiment has proved that the filter based on LVQ is superior to Bayes-based and BP-based approaches in total performances apparently.

Keywords: LVQ, anti-spam e-mail filtering, mutual information, vector space model

4 Fuzzy input coding for an artificial neural—network modelling visual speech movements



Hans-Heinrich Bothe

February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: pdf(406.28 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: Kohonen map, certificial visual speech (AVS), fuzzy input coding, lip-reading, radical basis function network

5 Concept features in Re:Agent, an intelligent Email agent



Gary Boone

May 1998 **Proceedings of the second international conference on Autonomous agents**

Publisher: ACM Press

Full text available: pdf(1.07 MB) Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)

6 A sub Bayesian nearest prototype neural network with fuzzy interpretability for diagnosis problems



Saman Halgamuge, Christoph Grimm, Manfred Glesner

February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: pdf(508.72 KB) Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)

Keywords: Bayes classifier, fuzzy rules, neural networks, rule generation

7 Explorative multilingual text retrieval based on fuzzy multilingual keyword classification



Rowena Chau, Chung-Hsing Yeh

November 2000 **Proceedings of the fifth international workshop on on Information retrieval with Asian languages**

Publisher: ACM Press

Full text available: pdf(689.91 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper proposes an explorative approach to multilingual text retrieval (MLTR) based on fuzzy multilingual keyword classification. The approach applies fuzzy clustering to obtain a classification of multilingual keywords by concepts. A multilingual concept directory is developed by labeling each concept with native language of the target user and associating it with relevant multilingual documents. The directory works as a searching interface for document browsing. This explorative approach ...

Keywords: document classification, fuzzy clustering, keyword classification, multilingual text retrieval

8 Research sessions: query processing II: Efficient k-NN search on vertically decomposed data ☐



Arjen P. de Vries, Nikos Mamoulis, Niels Nes, Martin Kersten
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

Publisher: ACM Press

Full text available: pdf(1.26 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Applications like multimedia retrieval require efficient support for similarity search on large data collections. Yet, nearest neighbor search is a difficult problem in high dimensional spaces, rendering efficient applications hard to realize: index structures degrade rapidly with increasing dimensionality, while sequential search is not an attractive solution for repositories with millions of objects. This paper approaches the problem from a different angle. A solution is sought in an unconventional ...

9 CURE: an efficient clustering algorithm for large databases ☐



Sudipto Guha, Rajeev Rastogi, Kyuseok Shim
June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data SIGMOD '98**, Volume 27 Issue 2

Publisher: ACM Press

Full text available: pdf(1.71 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Clustering, in data mining, is useful for discovering groups and identifying interesting distributions in the underlying data. Traditional clustering algorithms either favor clusters with spherical shapes and similar sizes, or are very fragile in the presence of outliers. We propose a new clustering algorithm called CURE that is more robust to outliers, and identifies clusters having non-spherical shapes and wide variances in size. CURE achieves this by representing each cluster by a certain ...

10 Papers: surfaces: Perceptually optimizing textures for layered surfaces ☐



Alethea Bair, Donald House, Colin Ware
August 2005 **Proceedings of the 2nd symposium on Applied perception in graphics and visualization APMV '05**

Publisher: ACM Press

Full text available: pdf(1.24 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we take a new look at the problem of texturing surfaces so that they can be displayed layered over each other but remain clearly visible. Finding optimal textures that solve this problem is complex because of the perceptual interactions between the visual effects of parameters controlling texture generation. Instead of using controlled experiments to investigate this problem, we use a genetic algorithm based human-in-the-loop parameter space search to build a large database of human ...

Keywords: data mining, genetic algorithm, layered surfaces, neural networks,

perception, principal component analysis, visualization evaluation

11 Distributed data clustering can be efficient and exact



George Forman, Bin Zhang

December 2000 **ACM SIGKDD Explorations Newsletter**, Volume 2 Issue 2

Publisher: ACM Press

Full text available: pdf(514.56 KB) Additional Information: [full citation](#), [index terms](#)

Keywords: data mining, distributed computing, multidimensional data clustering, parallel algorithms, very large databases

12 Integration of self-organizing maps with spatial indexing for efficient processing of multi-dimensional data



M. Zaremba, L. St-Laurent, O. Niemann, D. Richardson

November 2000 **Proceedings of the 8th ACM international symposium on Advances in geographic information systems**

Publisher: ACM Press

Full text available: pdf(721.38 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper investigates the integration of a class of adaptive soft-computing techniques and architectures with helical hyperspatial codes (HHCode) - indexing technology developed at Canadian Hydrographic Services - and their use in developing automated systems for processing of complex, multi-dimensional geo-spatial information, mainly multi-spectral satellite imagery, in a broader context of knowledge extraction and representation. The soft-computing methods investigated here involve fusion ...

Keywords: clustering methods, fuzzy logic, multi-dimensional indexing, multi-spectral data processing, self-organizing maps

13 Book review: Competitively Inhibited Neural Networks for Adaptive Parameter Estimation by Michael Lemmon (Kluwer Academic Publishers, 1991)



Joseph M. Barone

October 1992 **ACM SIGART Bulletin**, Volume 3 Issue 4

Publisher: ACM Press

Full text available: pdf(566.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Rigorous, formal treatments of neural network fundamentals (i.e., treatments whose arguments consist primarily of theorems and proofs) have by now focused on a number of aspects. The convergence properties (stability) and capacity of neural nets of various types have been analyzed in this manner to one degree or another (e.g., [1-3]), and their expressive power has also been the subject of a number of formal analyses (e.g., [4]). Though not necessarily perfectly rigorous in the sense just mention ...

14 Bringing natural language information retrieval out of the closet



Donna Harman, Gerald Candela

June 1990 **ACM SIGCHI Bulletin**, Volume 22 Issue 1

Publisher: ACM Press

Full text available: pdf(677.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)




A prototype information retrieval system was developed that gives users fast and easy

access to textual information. This system uses a statistical ranking methodology that allows a user to input a query using only natural language, such as a sentence or a noun phrase, with no special syntax required. The system returns a set of text titles or descriptions, ranked in order of likely relevance to the query. The user can then select one or more titles for further examination of the corresponding t ...

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